

WHAT IS CLAIMED IS:

5 1. A rolling bearing structured such that  
a plurality of rolling elements are respectively held  
between inner and outer rings by a retainer,

grease is sealed therein by a seal,  
a rotary body provided with said outer ring and a shaft  
provided with said inner ring can be connected together by  
a clutch mechanism, and,

10 when said rotary body and shaft are connected together  
by said clutch mechanism, said rolling bearing can be used  
on receiving a rotation load while the relative rotation  
between said inner and outer rings is zero,

15 wherein an initial radial clearance between said inner  
and outer rings is set such that a bearing effective clearance  
when said rolling bearing is incorporated between said rotary  
body and said shaft can provide a positive value.

20 2. A rolling bearing as set forth in Claim 1, wherein  
said bearing effective clearance is set at 0.020 mm or more.

25 3. A rolling bearing as set forth in Claim 1, wherein  
the depths of grooves formed in said inner and outer rings  
are respectively 17% or more of the diameter of said rolling  
body.

4. A rolling bearing as set forth in Claim 2, wherein

the depths of grooves formed in said inner and outer rings are respectively 17% or more of the diameter of said rolling element.

5            5. A rolling bearing as set forth in Claim 1, wherein an interference of the seal lip of said seal is 60% or more of an axial clearance.

6. A rolling bearing as set forth in Claim 2, wherein an interference of the seal lip of said seal is 60% or more of said axial clearance.

7. A rolling bearing as set forth in Claim 3, wherein an interference of the seal lip of said seal is 60% or more of said axial clearance.

8. A rolling bearing as set forth in Claim 4, wherein an interference of the seal lip of said seal is 60% or more of said axial clearance.

20            9. A rolling bearing as set forth in Claim 1, wherein the dynamic viscosity at 40° C of the base oil of said grease is 80 mm<sup>2</sup>/s or more.

25            10. A rolling bearing as set forth in Claim 2, wherein the dynamic viscosity at 40° C of the base oil of said grease

is 80 mm<sup>2</sup>/s or more.

11. A rolling bearing as set forth in Claim 3, wherein  
the dynamic viscosity at 40° C of the base oil of said grease  
is 80 mm<sup>2</sup>/s or more.

12. A rolling bearing as set forth in Claim 4, wherein  
the dynamic viscosity at 40° C of the base oil of said grease  
is 80 mm<sup>2</sup>/s or more.

13. A rolling bearing as set forth in Claim 5, wherein  
the dynamic viscosity at 40° C of the base oil of said grease  
is 80 mm<sup>2</sup>/s or more.

14. A rolling bearing as set forth in Claim 6, wherein  
the dynamic viscosity at 40° C of the base oil of said grease  
is 80 mm<sup>2</sup>/s or more.

15. A rolling bearing as set forth in Claim 7, wherein  
the dynamic viscosity at 40° C of the base oil of said grease  
is 80 mm<sup>2</sup>/s or more.

16. A rolling bearing as set forth in Claim 8, wherein  
the dynamic viscosity at 40° C of the base oil of said grease  
is 80 mm<sup>2</sup>/s or more.